

**Amendments and Listing of the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A method of enabling ~~synchronisation~~synchronization of a first and a second signal, ~~the method comprising the steps of:~~

- deriving a first fingerprint ~~(102)~~ on the basis of a segment of the first signal ~~(101)~~, where the segment of the first signal ~~(101)~~ is unambiguously related with a first ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ),
- deriving a second fingerprint ~~(104)~~ on the basis of a segment of the second signal ~~(103)~~, where the segment of the second signal ~~(103)~~ is unambiguously related with a second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ), and
- supplying the first and second fingerprints ~~(102, 104)~~ to a ~~synchronisation~~synchronization device ~~(200, 300)~~ for synchronizing the first and the signal based on- the first and second fingerprints.

2. (currently amended) A method according to claim 1, ~~characterized in that the method further comprises~~wherein for each given ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) performing at least one of: [;] storing the derived first fingerprint ~~(102)~~ in a database ~~(203)~~ and/or and storing the derived second fingerprint ~~(104)~~ in the same or another database ~~(203)~~.

3. (currently amended) A method according to claim 1, ~~characterized in that~~wherein the first fingerprint ~~(102)~~ and the second fingerprint ~~(104)~~ are transmitted to the ~~synchronisation~~synchronization device ~~(300)~~ via the Internet or via other means.

4. (currently amended) A method according to claim 1, ~~characterized in that~~wherein at least one the segment of the first signal ~~(101)~~ and/or and the segment of the second signal ~~(103)~~ are unambiguously related with at least one of the first and/or and second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) according to:

at least one of the segment of the first signal (401) ~~and/or~~ and the segment of the second signal (403) ending substantially at at least one of the first ~~and/or~~ and second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ),

- at least one of the segment of the first signal (401) ~~and/or~~ and the segment of the second signal (403) starting substantially at at least one of the first ~~and/or~~ and second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ),

- at least one of the segment of the first signal (401) ~~and/or~~ and the segment of the second signal (403) starting or ending at a predetermined distance before or after the least one of the first ~~and/or~~ and second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ), or

at least one of the first ~~and/or~~ and second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) being at a predetermined time point between a start and an end of the segment of at least one of the first signal (401) ~~and/or~~ and the segment of the second signal (403).

5. (currently amended) A method according to claim 1, ~~characterized in that~~ wherein the first ( $T_n$ ;  $T_{n+1}$ ) and second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) is the same.

6. (currently amended) A method according to claim 1, ~~characterized in that~~ wherein the first ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ) is different from the second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) and in that the method further comprises:

~~the step of~~ storing a first representation of a relationship between the first ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ) and a first time point of a reference time (407) and storing a second representation of a relationship between the second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) and a second time point of said reference time (407).

7. (currently amended) A method according to claim 4 ~~6~~, characterized in that the method further comprises the steps of at least one of:

- transmitting at least one of the first representation and/or and second representation to a ~~synchronisations~~synchronization device(300), and/or
- transmitting at least one of the first and/orand second representation to a server(600) in communications connection with a ~~synchronisations~~synchronization device(300), and/orand
- transmitting the one or more derived first fingerprints(102) and second fingerprints (104) to the server(600).

8. (currently amended) A method of ~~synchronising~~synchronizing two or more signals, the method comprising the steps of:

- generating a first fingerprint stream (105) on the basis of a first signal(101),
- generating a second fingerprint stream (106) on the basis of a second signal(103),
- comparing a segment of the first fingerprint stream (105) with one or more first fingerprints (102) stored in at least one database (203) in order to determine if a match exists or not,
- comparing a segment of the second fingerprint stream (106) with one or more second fingerprints (104) stored in the at least database (203) in order to determine if a match exists or not, and
- if a match exists for both a first and a second fingerprint (102; 104) determining a location of a first ~~synchronisations~~synchronization time point (Tn, Tn+1) for the first signal (101) and a location of a second ~~synchronisations~~synchronization time point (Tn, Tn+1;Tm) for the second signal (103) and ~~synchronising~~synchronizing the first (101) and the second (103) signal using the determined locations.

9. (currently amended) A method according to claim 8, ~~characterized in that the step of~~ ~~synchronising~~wherein synchronizing comprises: delaying either the first (101) or the

second (103) signal by an amount equal to a difference, if any, between the location of the first ~~synchronisations~~synchronization time point ( $T_n$ ,  $T_{n+1}$ ) for the first signal (101) and the location of the second ~~synchronisations~~synchronization time point ( $T_n$ ,  $T_{n+1}$ ;  $T_m$ ) for the second signal (103).

10. (currently amended) A method according to claim 8, ~~characterized in that~~wherein the location of at least one of the first and/or the second ~~synchronisations~~synchronization time point ( $T_n$ ,  $T_{n+1}$ ;  $T_m$ ) for the first/and the second signal (101, 103) are given by an unambiguous relation with at least one of a segment of a first signal (101) ~~and/or~~and a segment of a second signal (103) used during generation of the matching first fingerprint (102) and of the matching second fingerprint (104).

11. (currently amended) A method according to claim 8, ~~characterized in that~~wherein the first and second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) is the same.

12. (currently amended) A method according to claim 8, ~~characterized in that~~wherein the first and second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) is different and in that the method further comprises:

- if a match exists for both a first and a second fingerprint (102; 104)
- obtaining a first representation of a relationship between the first ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ) and a first time point of a reference time (107),
- obtaining a second representation of a relationship between the second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) and a second time point of said reference time (107), and
- using the first and second time points of said reference time (107) to ~~synchronises~~synchronize the first (101) and the second signal (103),
- instead of

- determining, if a match exists for both a first and a second fingerprint (102; 104), a location of a first ~~synchronisation~~synchronization time point ( $T_n$ ,  $T_{n+1}$ ) for the first signal (101) and a location of a second ~~synchronisation~~synchronization time point ( $T_n$ ,  $T_{n+1}$ ;  $T_m$ ) for the second signal (103) and ~~synchronising~~synchronizing the first (101) and the second (103) signal using the determined locations.

13. (currently amended) A method according to claim 12, ~~characterized in that~~wherein the method further comprises ~~the steps of~~ at least one of:

- receiving at least one of the first ~~and/or~~and second representation in a ~~synchronisation~~synchronization device (300) from a server (600) in communications connection with the ~~synchronisation~~synchronization device (300), ~~and/or~~and
- receiving the one or more first fingerprints (102) and second fingerprints (104) from the server (600).

14. (currently amended) A method according to claim 1, ~~characterized in that~~wherein said first signal (101) is an audio signal, said second signal (103) is a video signal, said first fingerprint (102) is an audio fingerprint, and said second fingerprint (104) is a video fingerprint.

15. (currently amended) A device (200) for ~~synchronising~~synchronizing at least two signals, the device comprising:

a fingerprint generator (202) adapted to:

- ~~to derive~~ deriving a first fingerprint (102) on the basis of a segment of a first signal (101), where the segment of the first signal (101) is unambiguously related with a first ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ), and
- ~~to derive~~ to derive a second fingerprint (104) on the basis of a segment of a second signal (103), where the segment of the second signal (103) is unambiguously related with a second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ).

16. (currently amended) A device according to claim 15, ~~characterized in that~~wherein the device further comprises at least one database (203) having stored at least one of the derived first fingerprint (402) ~~and/or~~and the derived second fingerprint (404) for each given ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ).

17. (currently amended) A device according to claim 15, ~~characterized in that~~wherein the device further comprises a transmitter (204) for transmitting the one or more derived first fingerprints (402) and second fingerprints (404) in the at least one database (203) to a ~~synchronisation~~synchronization device (300) via the Internet or via other means.

18. (currently amended) A device according to claim 15, ~~characterized in that~~wherein at least one of the segment of the first signal (401) ~~and/or~~and the segment of the second signal (403) are unambiguously related with at least one of the first ~~and/or~~and second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) according to:

- at least one of the segment of the first signal (401) ~~and/or~~and the segment of the second signal (403) ending substantially at at least one of the first ~~and/or~~and second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ),
- at least one of the segment of the first signal (401) ~~and/or~~and the segment of the second signal (403) starting substantially at at least one of the first ~~and/or~~and second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ),
- at least one of the segment of the first signal (401) ~~and/or~~and the segment of the second signal (403) starting or ending at a predetermined distance before or after at least one of the first ~~and/or~~and second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ), or
- at least one of the first ~~and/or~~and second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) being at a predetermined time point between a start and an end of the segment of at least one of the first signal (401) ~~and/or~~and the segment of the second signal (403).

19. (currently amended) A device according to claim 15, ~~characterized in that~~wherein the first ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ) and the second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) is the same.

20. (currently amended) A device according to claim 15, ~~wherein~~characterized in that the first ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ) is different from the second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) and in that the device comprises the means adapted to store a first representation of a relationship between the first synchronization time point ( $T_n$ ;  $T_{n+1}$ ) and a first time point of a reference time (407) and store a second representation of a relationship between the second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) and a second time point of said reference time (407).

21. (currently amended) A device according to claim 20, ~~wherein~~characterized in that the device further comprises at least one of:

- a transmitter (204) for transmitting at least one of the first ~~and/or~~and second representation to a ~~synchronisations~~synchronization device (300), ~~and/or~~
- a transmitter (204) for transmitting at least one of the first ~~and/or~~and second representation to a server (600) in communications connection with a ~~synchronisations~~synchronization device (300), ~~and/or~~ and
- a transmitter (204) for transmitting the one or more derived first fingerprints (102) and second fingerprints (104) to the server (600).

22. (currently amended) A ~~synchronisations~~synchronization device (300) for ~~synchronising~~synchronizing two or more signals, the device comprising:

- means (302) for generating a first fingerprint stream (105) on the basis of a first signal (101),
- means (302) for generating a second fingerprint stream (106) on the basis of a second signal (103),

- means (302) for comparing a segment of the first fingerprint stream (105) with one or more first fingerprints (102) stored in at least one database (203) in order to determine if a match exists or not,
- means (302) for comparing a segment of the second fingerprint stream (106) with one or more second fingerprints (104) stored in the at least one database (203) in order to determine if a match exists or not, and
- means (302) for, if a match exists for both a first and a second fingerprint (102; 104), determining a location of a first ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ) for the first signal (101) and determining a location of a second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) for the second signal (103) and means (303) for ~~synchronising~~synchronizing the first (101) and the second (103) signal using the determined locations.

23. (currently amended) A device according to claim 22, ~~wherein~~characterized in that the means (303) for ~~synchronising~~synchronizing is adapted to: delay either the first (101) or the second (103) signal by an amount equal to a difference, if any, between the location of the ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ) for the first signal (101) and the location of the ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) for the second signal (103).

24. (currently amended) A device according to claim 22, ~~wherein~~characterized in that the location of at least one of the first ~~and/or~~and second ~~synchronisation~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) for at least one of the first ~~and/or~~and second signal (101, 103) are given by an unambiguous relation with at least one of a segment of a first signal (101) ~~and/or~~and a segment of a second signal (103) used during generation of the matching first fingerprint (102) and of the matching second fingerprint (104).



25. (currently amended) A device according to claim 22, ~~wherein~~ characterized in that the first and second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) is the same.

26. (currently amended) A device according to claim 22, ~~wherein~~ characterized in that the first and second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) is different and in that the device further comprises:

- if a match exists for both a first and a second fingerprint ~~(102; 104)~~,
- a receiver ~~(204)~~ for obtaining a first representation of a relationship between the first ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ) and a first time point of a reference time ~~(107)~~,
- a receiver ~~(204)~~ for obtaining a second representation of a relationship between the second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) and a second time point of said reference time ~~(107)~~, and
- ~~synchronisations~~synchronization means ~~(303)~~ for using the first and second time points of said reference time ~~(107)~~ to ~~synchronises~~synchronize the first ~~(101)~~ and the second signal ~~(103)~~,
- instead of comprising
- means ~~(302)~~ for, if a match exists for both a first and a second fingerprint ~~(102; 104)~~, determining a location of a first ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ) for the first signal ~~(101)~~ and determining a location of a second ~~synchronisations~~synchronization time point ( $T_n$ ;  $T_{n+1}$ ;  $T_m$ ) for the second signal ~~(103)~~ and means ~~(303)~~ for ~~synchronising~~synchronizing the first ~~(101)~~ and the second ~~(103)~~ signal using the determined locations.

27. (currently amended) A device according to claim 26, ~~wherein~~ characterized in that the device further comprises at least one of:

- a receiver ~~(204)~~ for receiving at least one of the first ~~and/or~~and second representation in a ~~synchronisations~~synchronization device ~~(300)~~ from a server ~~(600)~~ in

communications connection with the ~~synchronisation~~synchronization device (300),  
and/or and

- a receiver (204) for receiving the one or more first fingerprints (102) and  
second fingerprints (104) from the server (600).

28. (currently amended) A device according to claim 15, ~~wherein~~characterized in that  
said first signal (401) is an audio signal, said second signal (403) is a video signal,  
said first fingerprint (102) is an audio fingerprint, and said second fingerprint (104) is a  
video fingerprint.

29. (currently amended) A non-transitory computer readable medium having stored  
thereon instructions for causing one or more processing units to execute the method  
according to claim 1.